

# Emily Kelt

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## EDUCATION

### UNIVERSITY - University of Cambridge

Studying **Computer Science** at Pembroke College, University of Cambridge

*October 2024 Start*

*Summer 2027 Finish*

### HIGH SCHOOL - Craigmount High School, Edinburgh

*2018-2024*

SQA Advanced Higher - Achieved A1 A1 A1 in Mathematics, Computing, Physics. Top marks in school in all.

SQA Higher - Achieved A1 A1 A1 A1 A1 A1 in Mathematics, Computing, Physics, Graphic Communication, English, Art

SQA National 5 - Achieved all A1, in all of the above as well as Engineering Science and Cyber Security

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## PROFESSIONAL EXPERIENCE

### Software Development

**2022 - Present**

#### Self Employed, Full Stack

Variety of different full-stack software has been developed independently for clients. Recently, I have developed a for a private medical practice to manage their report system and visualise historical patient data involving creating a custom library to draw visually pleasing graphs for the company's high-value clients. The software was developed using Flask, AWS, PostgreSQL, JavaScript, GitHub Actions, and involved adhering to strict legal compliance. Other interesting projects include: a password manager software with RSA encryption and database storage and secure logins, BMI calculator used by NHS practices, interactive workbook for the psychology department at Edinburgh University.

### Astronomy Technology

**June 2023**

#### UK Astronomy Technology Centre Internship

Used Python in analysing images from satellites developed at the UKATC, such as correcting images. Analysed the data of stars from the Gaia mission and used machine learning to isolate different star clusters. Experiencing project management encouraged me to apply it and become project manager of the team for the CANSAT engineering team (as well as designing the CAD model, circuit, and codebase for the project).

### WiSE Technology Insight

**August 2024**

#### Jane Street

Attended talks on a variety of topics to do with economics, game theory, and computer science. Worked on challenging maths and logic problems within a group, valuing everyone's contributions. Worked out the ideal game of a card game based on how the market works with expected probabilities. Learned about the OCaml programming language and how it has been optimised for the software created by the company.

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## SKILLS

Proficient in Python, HTML, CSS, SQL

Experience in PHP, JavaScript, Java, OCaml

Version control for group projects

Project Management

Client Communication

Agile methodologies

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## EXTRACURRICULAR ACTIVITIES

Future Assests Investment Competition Group  
Leader

Ran STEM Clubs for Juniors - Maths, Computing  
Leader of CANSAT Engineering team 2 years in a row

Distinction in Bebras Computing Challenge (Elite and Senior), OUCC olympiad

Gold in UKMT (Senior, Intermediate, Junior)

Eurekas Institute of Physics Competition Runner up

UKMT Einstein Hat Competition Runner up